VERIFY ALL DOCUMENTS FOR CURRENT REVISION AND PENDING CHANGES PRIOR TO EACH USE. - D-710 -B-G-30-89-GENERAL REVISION AS CIRCLED VS & DAIL OF MU DATE\_ 7/13/89 ER1646 ECN3194 12/7/89 ECN 3315 GW DRS VAD GENERAL NOTES REV. PER ECH 34 1-18-90 7-10-90 ECN 3744 BP TEL VAD 1. Allowable soil bearing (Ksf): PER: FCN VF-2A-260 12H HAB Sm Transient + Normal Op. Loads GENERAL NOTES (Cont'd) 24. Provide 3/16" diameter nailing holes in embedded structural items Spread Ftgs: REV. PER ECN 7574 spaced and located as required to facilitate attachment to forms. Slabs/Mats: Holes in the embeds shall be plug welded and ground flush after 2. Frost penetration depth: 4'-0. installation, 25. Sub-contractor shall furnish all plates clip angles, connections. 3. Cast in place concrete: f'c = 4,000 PSI at 28 days. etc required for the completion of the structure even if every such item is not shown on drawings. 4. Reinforcing steel shall be intermediate grade billet steel bars conforming to ASTM A615 (Deformed Bars) Grade 60. 26. Sub-contractor shall verify all dimensions before fabrication, erection, or construction. 5. Concrete materials, reinforcing and concrete work shall comply with the requirements of ACI 318 and ACI 301. Wherever there is a 27. Adequate temporary bracing, supports, shoring and scaffolding conflict, requirements of code ACI 318 shall govern. should be provided during construction and until all new construction elements achieve their required strengths. 6. Lap splices shall be Class C as per ACI 318, unless otherwise 29. Unless noted all work to be performed in accordance with WVNS Specification HVNS-CS-194. OR WVNS - C5-139 AS APPLICABLE 30. Unless noted, grating shall be rectangular welded type with 1-1/4 x 3/16 bearings bars spaced 1-3/16 on centers and cross bars spaced not more than 4 on centers. It shall be securely fastened to supporting steel as per manufacturer's recommendation. Deck panels shall be fastened to the steel framework at ends and at intermediate supports by welds through the deck panels not less than 3/4" Ø spaced not more than 12" across the width. End THIS DWG IS PART OF WVNS CS-194 AND CS-139 closures of the panels are to be fastened by tack welding or with sheet metal screws spaced not more than 4'-0 on center. Side closures of the panels are to be fastened by tack welding not more than 3'-0 on center. Sheet metal screws shall not a used for side closures. Each deck unit shall be brought to proper 9. Provide expansion joints as shown on Drawings. bearing on the supporting beams and adjusted to final position before being permanently fastened. In the event the 10. Grout shall be as per WVNS Specification. manufacturer's recommendations are different from the above requirements the more stringent requirements shall govern. 11. Welded studs shall be 'NELSON' Type H4L (unless noted), size as noted, or approved equal. 32. Existing Ebasco steel referred to in these drawings is painted blue. Existing sonoco steel referred to in these drawings is 12. Carbon steel Expansion anchors shall conform to Federal. painted green or white. Specification FF-S-305 Group II, Type 4, Class 1, "HILTI" KWIK bolt II or approved equal. Unless otherwise noted, minimum embedment shall 33. Shim plates when permitted cannot exceed 1/2 the designated weld size. Additionally, the designated weld size must be increased by THE REPORT OF ME AND AND THE SELECTION the shim plate thickness. Shim late size shall not exceed bearing or base place size and shall not extend past the edges of 2 1/2" for 3/8 Ø; 3 1/2" for 1/2 Ø; 4" for 5/8 Ø; 4 3/4" for 3/4 Ø bearing plate. I, & .Q. DELIK 34. Size of non structural weld not called out shall be at least 1/8". 13. Structural and Misc. Steel: Fy = 36,000 psi, ASTM A38 (unless) Unless noted, stair treads to be 8-9/16" wide rectangular welded type with  $1-1/4 \times 3/16$  bearing bars spaced 1-3/16 on centers and cross bars spaced not more than 4" on centers including checkered 14. Steel design, fabrication and erection shall be in accordance with plate nosing as per McNichols Co., P.O. Box 30300, Tampa, ALSC Specification for Design, Fabrication, and Frection of Florida, 33630-3300 or equal. Structural Steel, eighth edition, Part 1. IN WELDED CONNECTIONS, LENGTH OF END RETURNS SHALL BE AS NOTED ON THE CONTRACT DWGS, OR /5) 15, Anchor Bolts: Fy = 36,000 psi, ASTM A-307, OR SAE J429 GRADE 5. 16. Pipe sleeves, conduits and other embedments not shown on civil 2X THE WELD SIZE WHERE LENGTHS ARE NOT drawings shall be established by the subcontractor from other INDICATED. MAX LENGTH OF END RETURNS SHALL contract drawings. All embedded items shall be in place before BE I', & MAY BE UNDERSIZE BE 1/8". concrete is placed. 17. Shop connections shall be welded, unless noted. 18. All structural welding shall be in accordance with the Structural Welding Code - AWS D1.1-84, of the American Welding Society. Only low Hydrogen Electrodes shall be used. The interpass temperature for welding to embeds shall not exceed 250°F. The maximum interpass temperature for welding stainless steel shall The weld metal to join the base metals shall be as follows: a) AWS-A5.1 E70XX to join carbon steel to carbon steel. b) ASME SFA 5.4, Classification E308 to join stainless steel to stainless steel. c) ASME SFA 5.4, Classification E309 to join stainless steel to carbon steel. 19. Field trammy connection shall be high strength policed traction type made up with 7/8 \$ ASTM A325 bolts, unless noted otherwise. A hardened steel washer shall be provided under nut or bolt head whichever is turned in tightening THE CLEAR DIMENSION FROM THE ELLO OF A BEAM TO THE FACE OF CONLECTING MEMBER SHALL BE WITHIN THE RANGE OF 10101 WVNS APPROVAL 20. The use of Shim plates urder the column base plate will not be permitted upon final grouting. 21. Base plates are symmetrical about centerline of communs unless otherwise noted. 22. All contact surfaces within high-strength bolt connections and welding areas shall be free of oil, paint, lacquer, galvanizing or other deleterious material. 23. All steel surfaces that are to be encased in the finish a concrete shall be unpainted. All other surfaces of steel mealers shall FOR DRAWING INDEX SEE DRAWING NO. receive specified primer & paint. EBASCO SERVICES INCORPORATED A/E 0.F.S. NO. 2388 PROJECT MGR D.A. NUTA /KM2 D.A NUTA / SP. 12-22-89 WEST VALLEY DEMONSTRATION PROJECT VITRIFICATION FACILITY CHECKED A G SERAPHIDES 12-20 80 GENERAL NOTES AND REFERENCE DRAWINGS DE-ACO7-81NE44139 SIZE INDEX CODE NUMBER DRAWING NO. PROJECT NO. 19-CWV-02275 SUBCONTRACT NO. ISSUED FOR CONSTRUCTION SCALE